



*This newsletter is for BIOME 2023 participants and some materials may be password protected.*

## Greetings from the BioQUEST Team!

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P.S. If you're coming across this newsletter on the QUBES website or on social media, [you can subscribe here](#) to keep in touch!

## 2023 Working Group October Updates

### [Podcasting in STEM Education](#)

**Group members:** Phil Gibson Sarah Straud, Margaret Goodman, Michael Sitvarin, Christin Monroe

#### **Wins**

- We are continuing with developing our ideas for resources. Our biweekly meetings are providing a great forum to exchange ideas. Michael is working on the resources to accompany the Bees Podcast and we are also thinking about ways to develop resources around parasite biology and ecology. Christin is providing ideas about chemical concepts that can be incorporated into several existing podcasts. Phil is in the final stages of interviews for the biofilms podcast. The group provided some creative interview questions.



#### **Challenges**

- There is still the ever-present challenge of meeting via Zoom. Even after a pandemic, it still has problems. I'm trying to improve my ability to keep everyone engaged although we are, by default, apart.

#### **Connections & Wanted**

- If anyone can see a way to connect your topics to a podcast episode or supporting resource, we would love to include you in the conversation. AI might be a really cool topic (hint, hint) for an episode. Send me a message if you would like to brainstorm.

Reach out to [Phil Gibson](#) to learn more!

## Assessing Collaboration and Leadership Skills with Project Leadership

**Group members:** Mary Mulcahy, Heather Rissler, Pankaj Mehrotra, Sheela Vemu, Stacey Kiser, John Starnes, Bharti Kaushik, Carlos Goller, Ashley Poole, Laurel Lorenz

### **Wins**

- We are continuing to work towards implementing Project Leadership with different programs - be that faculty development programs or courses with team work.
- Bharti is currently using Project Leadership with her team of three staff/faculty to help each team member develop leadership skills.
- In October, we identified a paragraph structure to define team roles. The structure consists of describing why the role brings value to the team and individual as well as the specific responsibilities associated with each role.
- To gain first-hand experience in using Project Leadership, we are using Project Leadership as a working group. People select different roles and skills each week and receive feedback.
- For our next meeting, we're each going to see how we can use ChatGPT to write team roles that help individuals develop leadership

### **Challenges**

- Each of us has many commitments, so it can be hard to remember to sign up for roles in advance and to provide feedback. Perhaps we need a motivator role who motivates team members to take on new roles and try out new skills! Our most successful role has been Topic Selector, where team members think of thoughtful discussion topics to move our team forward.

### **Wanted Ads**

If anyone could provide feedback on our [draft of faculty team roles](#), we would greatly appreciate it.

Reach out to [Laurel Lorenz](#) for more information!

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## Revealing Hidden Figures in Natural History Collections

### **Group members:**

- Implementation: Molly Phillips, Mary Mulcahy, Pankaj Mehrotra, Shawn Krosnick
- Finishing module WIPs (Works in Progress): Makenzie Mabry, Siobhan Leachman, Jennifer Girón, Bunmi Aina
- Storytelling module: Adania Flemming, Karina Sanchez, Jen Kovacs

### **Wins**

The finishing the WIPs group has finalized two of our modules (Introduction and ORCID) so these two modules should be published through BCEENET soon! They also finished a draft of the Bionomia module that is currently being internally reviewed and have



made great progress on the Wikidata module. Several people have implemented or are planning to implement one or more of the modules in their courses. The implementation team is also working brief assessments. The story telling module group has identified several resources that could be adapted for this project.

### Challenges

This time of the semester is always hectic, so our teams have had to reschedule or cancel some meetings, but we are still moving forward!

### Connections & Wanted

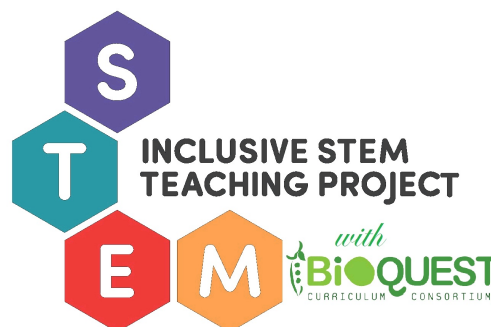
Storytelling modules! Anyone already use Scientist Spotlight in their classroom?

Reach out to [Molly Phillips](#) to learn more!

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### Inclusive STEM Teaching Project MOOC and Learning Community

**Group members:** Tamara Basham, Kristen Butela, Brittany Cavazos, Melissa Haswell, Sharon Homer-Drummond, Jennifer Katcher, Melanie Lenahan, Sondra LoRe, Laurel Lorenz, Michelle McWhorter, Ann Showalter, Cora Varas-Nelson, Shawn Zeringue-Krosnick, Sarah Prescott, and Deb Rook.



The group is continuing with the curriculum and has no updates for this month. But check in for the December BIOME Bulletin to learn about what happened this semester!

Deb, Sarah and Sharon are happy to answer questions and a little more information can be found on [our group page](#).

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### Using and Abusing AI

**Group members:** Jen Kovacs, Michael Sitvarin, Rhonda Hughes-Seefeldt, Tamara Basram, Derek Sollberger

#### Wins

We have continued to have themed meetings in October to talk broadly about AI tools in pedagogy

- Tamara: teacher tools
- Rhonda: ethics
- Michael: syllabi

#### Challenges

With our new Fall working group, we continue to try out new deliverables (within the 30 minutes/week that we were able to schedule)

- Derek: session about making grading rubrics
- We hope to create a QUBES-hosted guidebook by the end of the semester for other instructors that brings together our collected knowledge

#### Wanted Ads

We have a voracious appetite for information about how artificial intelligence may be changing the academic landscape.

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### DEI and SJ in STEM Teaching Resource Guide

**Wins:** What progress have you made on your goals and deliverables?

- We reviewed the idea behind the Faculty Resource Guide



- Pat is working on the outline
- We talked about the worksheets and the need for a comprehensive lexicon
- We discussed short videos to augment
- Shuchi created files to gather annotations/implementation notes

[Faculty Resource Guide document](#)

[Faculty Resource Guide spreadsheet](#)

In September and October we explored tools for faculty to assess potential biases and to reflect on how they might educate themselves. We explore explored students' identities and needs in greater depth: [Who's Who in Class survey](#)



- Kristen used to anonymously assess student demographics and make adjustments to course policies and assignments based on results
- Pat has also used in small and large class settings; can add in custom questions to see what students already know to inform assignment design
- Heather has used something similar
- Shuchi recommends including some examples that were discussed (case studies); provide some guidance on how faculty can use these tools
- Pat-how to integrate DEIJ into the syllabus and learning objectives, how to discuss with your students and guide the discussion calmly and rationally, etc.
- Alternatives: students can anonymously share identities using MentiMeter, word clouds, etc.

<https://www.adl.org/resources/tools-and-strategies/moving-safe-classrooms-brave-classrooms>

**Challenges:** What barriers or obstacles to your goals have come up? How are you planning to address them?

- Biggest challenge has been finding a time to meet. Some of us are now working asynchronously.
- We also have so much information that we think a lexicon of terms and an outline for the guide is our next critical step as well as continuing to summarize resources.

### Working Group Connections

- Hidden figures has resources that can be useful as do other projects.
- People in the BioGraphI group may have some insight on use of these since they used these in their FMN

### Wanted Ads

During November, we would love people to review and contribute to our emerging resource documents.

[Faculty Resource Guide document](#)

[Faculty Resource Guide spreadsheet](#)

We would also love to have suggestions for the emerging outline for the guide

### Current idea:

- What faculty need to know
- About themselves
- About their students
- About teaching controversial issues, including class rules
- About syllabus
- About social justice ideas
- About DEI

- About inclusivity and equity minded teaching strategies

[Please visit their site for more details](#) or reach out to the group's facilitator [Pat Marsteller](#).

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## QUBES Corner

Check out this knowledge-based article on "[Creating a Personal Collection of QUBES Open Educational Resources](#)" that shows you how to collect resources published to QUBES that will help you organize everything that you are interested in! This will also give you a great opportunity to search and view a hundreds of resources that have been published.

Have any questions? Come visit us during [office hours](#), or email [info@bioquest.org](mailto:info@bioquest.org)!

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## Connect With Us

Have questions about BIOME or beyond? Join us for BioQUEST's open office hours Wednesdays at 12:00 PM ET & Thursdays at 2:00 PM ET. Visit [this page](#) for Zoom and other info!

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